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STS OPS FLIGHT PRD, VOLUME I

PRD/PSP/OR/OD

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STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 1031 - INDEX

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ITEM NUMBER: N/A

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SECTION 1060 - KEY TECHNICAL PERSONNEL

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[PRD] DATABASE RECORD:	20916	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	01/24/07
		INITIAL DATE:	02/23/90
ITEM NUMBER:	G10	DATE LAST CHANGED:	01/25/07
SECTION:	1060	TIME LAST CHANGED:	10:15:10

REQUESTER: GSFC
TEST CODE: INFO

1. NAME: JAMES BANGERTER (R/R MANAGER)
2. ORGANIZATION: GSFC/450.1
3. TITLE/OFFICE: Networks Integration Office Code 450.1
4. BUSINESS ADDR: Goddard Space Flight Center, Greenbelt, MD 20771
5. TELEPHONE NO.: (301) 286-7306
6. FACSIMILE:

[PRD] DATABASE RECORD:	20917	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	01/24/07
		INITIAL DATE:	02/23/90
ITEM NUMBER:	G11	DATE LAST CHANGED:	01/25/07
SECTION:	1060	TIME LAST CHANGED:	10:13:25

REQUESTER: GSFC
TEST CODE: INFO

1. NAME: James Bangerter, Network Director
2. ORGANIZATION: GSFC/450.1
3. TITLE/OFFICE: Networks Integration Management Office 450.1
4. BUSINESS ADDR: Goddard Space Flight Center, Greenbelt, MD 20771
5. TELEPHONE NO.: (301) 286-7306
6. FACSIMILE:

[PRD] DATABASE RECORD:	20918	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	09/06/05
		INITIAL DATE:	02/23/90
ITEM NUMBER:	G12	DATE LAST CHANGED:	02/08/07
SECTION:	1060	TIME LAST CHANGED:	13:53:46

REQUESTER: GSFC
TEST CODE: INFO

1. NAME: Gary Morse

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[PRD] DATABASE RECORD: 20918
ITEM NUMBER: G12

2. ORGANIZATION: STDN/MILA
3. TITLE/OFFICE: Station Director
4. BUSINESS ADDR: NASA/STDN Merritt Island Station
Mail Code: MILA
John F. Kennedy Space Center
Kennedy Space Center, Florida
32899
5. TELEPHONE NO.: (321) 867-3514
6. FACSIMILE: (321) 867-4416

[PRD] DATABASE RECORD: 20919 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 01/24/07
INITIAL DATE: 02/23/90
ITEM NUMBER: G13 DATE LAST CHANGED: 01/24/07
SECTION: 1060 TIME LAST CHANGED: 10:31:42

REQUESTER: GSFC
SUBREQUESTER: GSFC/450
TEST CODE: INFO

1. NAME: James Bangerter
2. ORGANIZATION: GSFC/450.1
3. TITLE/OFFICE: Networks Integration Office Code 450.1
4. BUSINESS ADDR: Goddard Space Flight Center, Greenbelt, MD 20771
5. TELEPHONE NO.: (301) 286-7306
6. FACSIMILE: (301) 286-0275

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[PRD] DATABASE RECORD:	14024	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	01/08/93

ITEM NUMBER: G1.8E

[PRD] DATABASE RECORD:	333974	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	02/28/07
		INITIAL DATE:	01/12/87
ITEM NUMBER:	G13T	DATE LAST CHANGED:	11/26/07
SECTION:	2000	TIME LAST CHANGED:	14:48:14

REQUESTER: GSFC
 SUBREQUESTER: GSFC/534
 TEST CODE: PREFLT STSALL

1. DESCRIPTION: NETWORK AND RANGE SUPPORT PREPARATION

GSFC requires the Preliminary Mission Terminal Countdown support count. The count support is to be sent to GSFC GCEN/450. This office requires the preliminary support count to support timely preparation of the Network and Range Countdown 14 working days prior to Launch.

Comment: If no network simulation is scheduled then no preliminary count is required. This change defines a point prior to launch for delivery of the preliminary countdown.

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/07

[PRD] DATABASE RECORD:	338114	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	03/18/04
		INITIAL DATE:	01/12/87
ITEM NUMBER:	G14	DATE LAST CHANGED:	09/07/05
SECTION:	2000	TIME LAST CHANGED:	15:04:14

REQUESTER: GSFC
 SUBREQUESTER: F403-3
 TEST CODE: INFO

1. DESCRIPTION: JSC/DSMC CONTROL INTERFACES

A JSC/DSMC interface is required for transmission of scheduling and ground control messages from JSC and receipt of status messages from

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[PRD] DATABASE RECORD: 338114
ITEM NUMBER: G14

DSMC. The DSMC delay on JSC-originated ground control messages shall normally not exceed two seconds, with worst case delay of four seconds.

[PRD] DATABASE RECORD: 341798 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 01/14/08

ITEM NUMBER: G15EKT

[PRD] DATABASE RECORD: 343342 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 02/28/07
INITIAL DATE: 01/12/87
ITEM NUMBER: G16T DATE LAST CHANGED: 11/26/07
SECTION: 2000 TIME LAST CHANGED: 14:49:37

REQUESTER: GSFC
SUBREQUESTER: GSFC/452
TEST CODE: ALPHSE STSALL

1. DESCRIPTION: DSMC INTERFACES

JSC is required to have the capability to interface with the DSMC for transferring/receiving the following data:

1. Schedule information.
2. Operations Control messages.
3. Reconfiguration Request messages.
4. Status and Performance data.

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)
SUBSUPPLIER: USH-443C

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/07

[PRD] DATABASE RECORD: 10305 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 05/05/08
INITIAL DATE: 03/23/88
ITEM NUMBER: G37GSX DATE LAST CHANGED: 05/05/08
SECTION: 2000 TIME LAST CHANGED: 11:48:46

REQUESTER: GSFC
SUBREQUESTER: GSFC/450.2

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[PRD] DATABASE RECORD: 10305
ITEM NUMBER: G37GSX

TEST CODE: EAFB PREFLT STSALL

1. DESCRIPTION: PREFLIGHT VERIFICATION SUPPORT
(GN/SN/DFRC/RTS)

Prior to mission support, each station is required to support command, telemetry, metric data, verification where the following cases or conditions apply:

1. Significant hardware, software or configuration changes have occurred (including communications links with the stations).
2. Support requirement changes or unique payload requirements exist.
3. Missions are separated by an extensive period of time.

These tests are documented in 450-NOSP Space Shuttle AFSCN Annex/Air Force Satellite Control Network Annex to the NOSP for the Space Shuttle Program.

NOTE: 1.MILA is required to support TV verification testing with GSFC in parallel with JSC validation testing in accordance with the guidelines documented in the JSC Validation Testing Manual.

- 2.NHS, TCS, and DGS are required for ascent recorder dumps and potential real-time 2-way support. DGS is required for deorbit prep support in the event of a loss of TDS (JSC would required DGS to be a 2-way support site). DGS, HTS, and GTS are required for post K-band stow recorder dumps.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: GSFC/533 GSFC/581 MIL
RESPONDER: ANTHONY WILLIAMS 301 805-3459

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/05/08
RESPONSE: Data from RTS will be supplied via existing OAS interfaces.

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[PRD] DATABASE RECORD: 10305
ITEM NUMBER: G37GSX

SUPPLIER: SDTW AGENCY: SDTW (GODDARD SPACE FLIGHT CENTER (GSFC/))
SUBSUPPLIER: OAS
RESPONDER: ANTHONY WILLIAMS 301 805-3459

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/05/08
RESPONSE: Data from RTS will be supplied via existing OAS
interfaces.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: MR
RESPONDER: DAVE JONES 661 276-3086

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/05/08

[PRD] DATABASE RECORD: 11787 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 05/03/94

ITEM NUMBER: G38T

[PRD] DATABASE RECORD: 12138 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 09/22/03
INITIAL DATE: 08/17/87
ITEM NUMBER: G40T DATE LAST CHANGED: 09/28/07
SECTION: 2000 TIME LAST CHANGED: 12:30:47

REQUESTER: GSFC
SUBREQUESTER: MILA WSC
TEST CODE: ALPHSE STSALL

1. DESCRIPTION: CUSTOMER ANCILLARY SERVICE TO GSFC

JSC is required to transmit the Customer Ancillary Service (CAS) data to WSC, GSFC NIC for Network Operations, and KSC CD&SC/MILA (via GSFC) for the duration of every Space Shuttle Mission, long duration simulations, and Joint Integration Simulations (JIS).

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[PRD] DATABASE RECORD: 12138
ITEM NUMBER: G40T

GSFC COORDINATION: 450.1/GSFC/Jmaes Bangerter/301 286-7306

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/22/03

[PRD] DATABASE RECORD: 22757 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 09/22/03

ITEM NUMBER: G40.1T

[PRD] DATABASE RECORD: 22338 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 04/22/05

ITEM NUMBER: GS41GT

[PRD] DATABASE RECORD: 22695 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 09/03/08
INITIAL DATE: 07/18/90
ITEM NUMBER: GS42G DATE LAST CHANGED: 04/30/09
SECTION: 2000 TIME LAST CHANGED: 10:30:08

REQUESTER: GSFC SDTW
TEST CODE: FREFLT LAEORY LANDNG
PREFLT STSALL

1. DESCRIPTION: RTS NETWORK SUPPORT REQUIREMENTS

GSFC is required to provide SMC SDTW/RTS Network Support
Requirements in accordance with following schedule:

Modification Req'd to AFSCN	36 Months
Multiple Payload Support	18 Months
Single Payload Support	12 Months
Shuttle Orbiter-Only Support	3 Months

NOTE: NHS, TCS, and DGS are required for ascent recorder dumps and
potential real-times 2-way support. DGS is required for deorbit prep

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[PRD] DATABASE RECORD: 22695
ITEM NUMBER: GS42G

support, and HTS and GTS are required for post K-band stow recorder
dumps.

RTS Network Support Requirements to be addressed to:

SMC/SDTW 2nd. Lt. Victoria A. Gomez (victoria.gomez@Kirtland.af.mil)
COMM NO: (505) 853-4193
SMC/SDTW 2nd. Lt. Jay Thorstensen (Jay.thorstensen@kirkland.af.mil)
COMM NO: (505) 853-4194
cc: 22SOPS/DOO Brian Bayless (brian.bayless@shriever.af.mil)
FAX NO: (719) 567-3264
cc: 21 SOPS/Cliff Gatewood (clifton.gatewood@onizuka.af.mil)

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS 301 805-3459

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 09/03/08
RESPONSE: Data from RTS will be supplied via existing OAS
interfaces.

[PRD] DATABASE RECORD: 21666 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 05/18/07
INITIAL DATE: 06/03/91
ITEM NUMBER: G43T DATE LAST CHANGED: 09/28/07
SECTION: 2000 TIME LAST CHANGED: 12:30:47

REQUESTER: GSFC
SUBREQUESTER: JSC.DV
TEST CODE: EAEORY LANDNG PREFLT
STSALL

1. DESCRIPTION: SMC SDTW/RTS NETWORK SUPPORT REQUIREMENTS

JSC is required to submit to Goddard/Code 451, the SMC SDTW/RTS
Network Support Requirements for each Shuttle Mission by at least one
hundred(100) calendar days prior to the manifested launch date.
Requested data to furnish sufficient information I.E., Orbit Number,
Site, Mission Elapse Time (MET), support required (I.E., TLM, and CMD)

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[PRD] DATABASE RECORD: 21666
ITEM NUMBER: G43T

to enable support conflict resolution.

NOTE: NHS, TCS, and DGS are required for ascent recorder dumps and potential real-time 2-way support. DGS is required for deorbit prep support, and HTS and GTS are required for post K-band stow recorder dumps.

Mail To:

Mr. James Bangerter/Code 450.1 Network Director
Network Integration Management Office
Goddard Space Flight Center
Greenbelt, MD. 20771

TECHNICAL CONTACT: GSFC/James Bangerter/CODE 450.1/301 286-7306

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/29/07
RESPONSE: JSC will furnish this information in the required time frames. However, once mission specific training begins and actual mission time-lines are known, requests for changes to the initial support requests may be necessary.

[PRD] DATABASE RECORD: 530417 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 02/28/07
INITIAL DATE: 06/13/95
ITEM NUMBER: GT48GT DATE LAST CHANGED: 11/26/07
SECTION: 2000 TIME LAST CHANGED: 14:50:12

REQUESTER: GSFC JSC
TEST CODE: EORBIT KSC LAUNCH
PREFLT STSALL

1. DESCRIPTION: TDRSS VERIFICATION/VALIDATION TEST SUPPORT

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[PRD] DATABASE RECORD: 530417
ITEM NUMBER: GT48GT

The TDRSS and MCC/ESTL are required to support the combined Space Network (SN) verification/JSC validation testing. This testing will utilize the JSC ESTL to emulate the Space Shuttle Orbiter, providing both S-Band and Ku-Band Telemetry data, including payload data as well as the command forward link system. The MCC and TDRSS shall be in mission support configuration. This testing will confirm the end-to-end data transmission systems. System status (UPD/DQM) and control (GCMR/GCM) will also be evaluated to ensure true status is accurately reflected.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/07/07

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/28/07

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SECTION 2100 - METRIC DATA

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[PRD] DATABASE RECORD:	14026	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	01/07/93

ITEM NUMBER: G1.1

[PRD] DATABASE RECORD:	14027	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	01/07/93

ITEM NUMBER: G1.2E

[PRD] DATABASE RECORD:	14028	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	01/07/93

ITEM NUMBER: G2.1E

[PRD] DATABASE RECORD:	186530	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	01/12/87

ITEM NUMBER: G19E

[PRD] DATABASE RECORD:	306609	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	02/19/99
		INITIAL DATE:	03/24/88
ITEM NUMBER:	G25E	DATE LAST CHANGED:	02/02/07
SECTION:	2100	TIME LAST CHANGED:	13:59:14

REQUESTER: GSFC

SUBREQUESTER: GSFC/450.1

TEST CODE:	30 SPW	EAFB	ER
	LANDNG	STSALL	

1. DESCRIPTION: C-BAND BARRIER SCAN & HIT PROCESSING REQUIREMENTS

For EAFB landings, DOD is required to provide "Barrier Scan and Hit Processing capability at the PTP FPQ-6, VDB TPQ-18 and HAIR radars to ensure maximum probability of skin track data acquisition at a target elevation of 1 degree in clear weather or 3 degrees in rain, and with the dispersed landing trajectories shown on pages following this page. After either the PTP FPQ-6, VDB TPQ-18 or HAIR radar has acquired the Orbiter, DOD is to provide real-time acquisition data to other (VDB, PTP, and AFFTC/DFRC) radars. The real-time acquisition data are to be derived from the on-track radar's tracking data. The initial acquisition point(s) about which the radar(s) are to scan is to be

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[PRD] DATABASE RECORD: 306609
ITEM NUMBER: G25E

identified by DOD from INP's provided by GSFC or ER.

TECHNICAL CONTACT: MSOC/Trajectory Coordinator/281 853-2274 or during
Mission call 281 483-2411

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: EAFB WR

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/19/99

[PRD] DATABASE RECORD: 379202 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 06/03/94

ITEM NUMBER: G30

[PRD] DATABASE RECORD: 389130 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 09/22/03
INITIAL DATE: 02/05/90
ITEM NUMBER: G34E DATE LAST CHANGED: 01/24/07
SECTION: 2100 TIME LAST CHANGED: 11:05:34

REQUESTER: GSFC
SUBREQUESTER: GSFC/533
TEST CODE: ER PREFLT STSALL

1. DESCRIPTION: C-BAND REQUIREMENTS

RADAR SUPPORT

ER/RTCS is requested to include the NASA C-Band radars at Wallops in
the ongoing ER readiness evaluation test for Shuttle permission
testing:

1. WLPC FPQ-6
2. WLRC FPS-16 (Airport)
3. WLIC FPS-16 (Island, 57 degree flight only)
4. WLMC RIR-778

These radars will participate in tests as scheduled in the six-week

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SECTION 2100 - METRIC DATA

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[PRD] DATABASE RECORD: 389130
ITEM NUMBER: G34E

period prior to each Shuttle launch. Radar WLIC FPS-16 (Island) is only required for launches with the inclination of 57 degrees.

The post test reports should be supplied to:
Mr. James Bangerter/Code 450.1 Bldg 12/N131
Network Integration Management Office
NASA Goddard Space Flight Center
Greenbelt, MD. 20771-0001

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/22/03

[PRD] DATABASE RECORD: 9090 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 06/03/02
INITIAL DATE: 04/26/88
ITEM NUMBER: G45.1T DATE LAST CHANGED: 09/28/07
SECTION: 2100 TIME LAST CHANGED: 12:30:47
REQUESTER: GSFC
SUBREQUESTER: GSFC/595.1
TEST CODE: ER PREFLT STSALL

1. DESCRIPTION: ACQUISITION DATA REQUIREMENTS

JSC will provide GSFC with permission Trajectory data in accordance with the Trajectory D-Tape Interface, control document number JSC-22689. The Trajectory data will be of sufficient accuracy to provide acquisition data to the SN and GN Trackers.

NOTE: This requirement is also included in the L&L PRD, Section 2610, Item Number GLT, as it affects all phases.

TECHNICAL CONTACT: GSFC/595.1/Warren Mitchell/301 286-5092

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)
SUBSUPPLIER: JSC/DM

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/03/02

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 9090
 ITEM NUMBER: G45.1T

 [PRD] DATABASE RECORD: 10014 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 03/31/98
 INITIAL DATE: 06/17/91
 ITEM NUMBER: G47.1T DATE LAST CHANGED: 09/28/07
 SECTION: 2100 TIME LAST CHANGED: 12:30:47

REQUESTER: GSFC
 SUBREQUESTER: GSFC/531
 TEST CODE: LANDNG RENTRY STSALL
 PRIORITY: REQUIRED
 RATIONALE: To generate and transmit landing ephemerides.

1. DESCRIPTION: ACQUISITION DATA REQUIREMENTS

TDRSS Support During Landing Periods

JSC is required to generate and transmit two landing ephemerides to GSFC four hours prior to landing and again at two hours prior to landing. The first ephemeris should reflect the designated landing orbit. The second ephemeris should reflect a one-rev-late landing opportunity. GSFC is required to transmit landing ephemerides to WSC for TDRSS.

TECHNICAL CONTACT: MSOC/Trajectory Coordinator/281 853-2274 or during
 Mission call 281 483-2411

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/31/98

 [PRD] DATABASE RECORD: 243493 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 11/13/08
 INITIAL DATE: 03/25/88
 ITEM NUMBER: G50 DATE LAST CHANGED: 11/13/08
 SECTION: 2100 TIME LAST CHANGED: 13:58:03

REQUESTER: GSFC
 SUBREQUESTER: GSFC/531
 TEST CODE: 21 SOPS 30SPW EAFB
 ER NPHSE STSALL

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 243493
ITEM NUMBER: G50

PRIORITY: REQUIRED
1. DESCRIPTION: C-BAND AND ACQUISITION DATA REQUIREMENTS

The formats for the exchange of metric data (acquisition and tracking) between the DOD, 21 SOPS and GSFC will be as specified in the 453-HNDK-GN "Ground Network Tracking and Acquisition Data Handbook" for data formatting information.

TECHNICAL CONTACT: MSOC/Trajectory Coordinator or during
Mission call 281 483-2411

[PRD] DATABASE RECORD: 371348 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 05/29/07
INITIAL DATE: 03/25/88
ITEM NUMBER: GS67T DATE LAST CHANGED: 09/28/07
SECTION: 2100 TIME LAST CHANGED: 12:30:48

REQUESTER: GSFC SDTW
SUBREQUESTER: 21SOPS GSFC/501
TEST CODE: EORBIT STSALL

1. DESCRIPTION: ACQUISITION DATA REQUIREMENTS FOR SMC SDTW

During on-orbit periods, SDTW will use the Houston FDO/TRAJ WEB page to retrieve vector information. This WEB page will reflect the current ephemeris and vectors before and after any maneuvers. It will be upgraded by a pre-planned schedule before flight through the JSC FDO.

NOTE: Real-time FDF staffing for acquisition data support is not required during the crew sleep period while STS and ISS are docked.

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)
RESPONDER: RICK KRAESIG 281 853-2304

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/29/07

[PRD] DATABASE RECORD: 376622 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 06/03/94
ITEM NUMBER: G69

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 376622
ITEM NUMBER: G69

[PRD] DATABASE RECORD: 362027 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 03/15/99
INITIAL DATE: 03/25/88
ITEM NUMBER: G73E DATE LAST CHANGED: 02/07/07
SECTION: 2100 TIME LAST CHANGED: 09:29:52

REQUESTER: GSFC
SUBREQUESTER: ER GSFC/453
TEST CODE: ALPHSE ER STSALL

1. DESCRIPTION: C-BAND REQUIREMENTS

When ER-RTCS is scheduled and providing Shuttle Launch, ascent and on-orbit support, the ER computers will provide LDES (launch designate)

data to MILA, and WLP. These stations are required to receive and use the data for real-time acquisition purposes.

RATIONALE: Mandatory - Launch designate data to MILA, and WLP. Data line checkout prior to liftoff.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/15/99

[PRD] DATABASE RECORD: 19307 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 06/06/94

ITEM NUMBER: G85T

[PRD] DATABASE RECORD: 518883 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 04/03/98

ITEM NUMBER: GT86G

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2100 - METRIC DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	518897	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	04/03/98

ITEM NUMBER: GT87G

[PRD] DATABASE RECORD:	518898	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	04/03/98

ITEM NUMBER: GT88G

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	14032	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	01/07/93

ITEM NUMBER: G1.7E

[PRD] DATABASE RECORD:	349538	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	05/18/07
		INITIAL DATE:	07/23/90
ITEM NUMBER:	G14.5EGST	DATE LAST CHANGED:	05/28/08
SECTION:	2200	TIME LAST CHANGED:	09:44:00

REQUESTER:	GSFC		
SUBREQUESTER:	GSFC/401		
TEST CODE:	30 SPW	DATADS	MIL
	PREFLT	STSALL	

1. DESCRIPTION: JSC, GN, DOD, RTS, DFRC TELEMETRY VALIDATION TESTING

Reference Section 2200, Item T14G, DBR=380540. Capability is required to use a JSC generated tape as a source of data, if needed.

DATA DISPOSITION

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
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G1	TLM-ANALOG MAG TAPE-JSC VALIDATION TEST	1 CY	L -150 DAYS IF REQUESTED	GSFC J. Bangerter, CODE 450.1 USED FOR JSC VALIDATION AND GSFC VERIFICATION TEST.

NOTE: NHS, TCS, and DGS are required for ascent recorder dumps and potential real-time 2-way support. DGS is required for deorbit prep support, and HTS and GTS are required for post K-band stow recorder dumps.

SUPPLIER: ER	AGENCY: 1 ROPS/DOU	(45TH SPACE WING)
SUBSUPPLIER: AFSCN	ER	WR	
RESPONDER: MIKE GAWEL			

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/21/08

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 349538
ITEM NUMBER: G14.5EGST

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS 301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/29/07

SUPPLIER: SDTW AGENCY: SMC SDTW ()
RESPONDER: ANTHONY WILLIAMS 301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/29/07

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/29/07

[PRD] DATABASE RECORD: 384125 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 06/25/85

ITEM NUMBER: G15

[PRD] DATABASE RECORD: 231206 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 06/13/95

ITEM NUMBER: GT36GT

[PRD] DATABASE RECORD: 234662 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 05/15/95
INITIAL DATE: 05/10/91
ITEM NUMBER: GHT38G DATE LAST CHANGED: 01/24/07
SECTION: 2200 TIME LAST CHANGED: 11:19:09

REQUESTER: GSFC MSFC JSC
TEST CODE: EORBIT STSALL

1. DESCRIPTION: SN KU-BAND CHANNEL 2 REQUIREMENTS

The SN is required to have the capability to remote Ku-band
Channel 2 data to MCC, GSFC, and MSFC via the Closed IONET circuit.
In addition to Orbiter OD Dumps, data will include payload
R/T or dump data.

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 234662
ITEM NUMBER: GHT38G

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/95

[PRD] DATABASE RECORD: 237506 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 05/15/95
INITIAL DATE: 05/10/91
ITEM NUMBER: GHT39G DATE LAST CHANGED: 01/26/07
SECTION: 2200 TIME LAST CHANGED: 10:49:42

REQUESTER: GSFC MSFC JSC
TEST CODE: EORBIT STSALL

1. DESCRIPTION: SN KU-BAND CHANNEL 3 REQUIREMENTS

The SN is required to have the capability to remote Ku-band Channel 3 data to MCC, GSFC, and MSFC. Channel 3 bit rates within the bandwidth of the Closed IONET circuitry may be remoted. Channel 3 bit rates exceeding the Closed IONET circuitry bandwidth will be transmitted to MCC via the statistical mux.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: GSFC/450/450.2 GSFC/790

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/19/95

[PRD] DATABASE RECORD: 288378 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 09/15/05
INITIAL DATE: 06/07/90
ITEM NUMBER: G44T DATE LAST CHANGED: 09/28/07
SECTION: 2200 TIME LAST CHANGED: 12:30:48

REQUESTER: GSFC
SUBREQUESTER: GSFC/450.1
TEST CODE: ALPHSE DATADS STSALL

1. DESCRIPTION: ANTENNA AND COMMUNICATIONS STATUS

In order to determine the real-time status of the Orbiter's antenna

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 288378
ITEM NUMBER: G44T

and communications system at the Network Integration Center, GSFC
requires JSC to supply the following:

- A. Identify the correct parameters and their identification numbers in the OD.
- B. Be informed and updated on the proper calculations, algorithms, and conversions for reporting the correct status information based upon the bit data extracted from the OD.
- C. Be given the up-to-date frame, word, and bit locations of parameter and of the subcom windows in all TFL formats for each shuttle flight.

To perform this task effectively, GSFC requires JSC to supply the following documentation, with updates as issued:

- A. Shuttle Calibration Data Book, JSC-16486 (JSC/DC=WILCO)
- B. Telemetry B-C Requirements, JSC-11028. (JSC/DC=WILCO)
- C. Integrated Communications Officer Console Handbook, JSC-12829. (JSC/DF2=WILCO)
- D. Space Shuttle Telemetry and Recorded Data Format Requirements, JSC-10784. (JSC/DP=WILCO)

The GSFC contact and document recipient is Steve Testoff/450.1
301 286-6538.

The JSC point of contact is (Lead INCO/DF24) 281 483-0777.

DATA DISPOSITION

REF	DATA TYPE	QUAN	TIME REQ	RECIPIENT/REMARKS
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G1	TLM-DOC- SHUTTLE CALI- BRATION DATA BOOK-JSC 16486	1 COPY	ASAP	GSFC S. Testoff/450.1 UPDATES AS ISSUED.
G2	TLM-DOC- TELEMETRY B-C REQUIREMENTS.	1 COPY	ASAP	GSFC S. Testoff/450.1 UPDATES AS ISSUED.

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2200 - TELEMETRY DATA

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 288378
ITEM NUMBER: G44T

JSC 11028

G3	TLM-DOC- INTEGRATED COMMUNICATIONS OFFICER CONSOLE HANDBOOK- JSC 12829	1 COPY ASAP	GSFC S. Testoff/450.1 UPDATES AS ISSUED.
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G4	TLM-DOC-SPACE SHUTTLE TELE- METERED & RECORDED DATA FORMAT REQUIREMENTS- JSC 10784	1 COPY ASAP	GSFC S. Testoff/450.1 UPDATES AS ISSUED.
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SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)
RESPONDER: PAT MATTINGLY 281 483-0641

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/15/05

[PRD] DATABASE RECORD: 14029 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 01/07/93

ITEM NUMBER: G46E

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2300 - COMMAND SYSTEMS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	225606	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/13/95
ITEM NUMBER:	GT21GT		

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	265073	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	08/15/91

ITEM NUMBER: G22T

[PRD] DATABASE RECORD:	349767	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	03/01/07
		INITIAL DATE:	09/21/89
ITEM NUMBER:	GT24G	DATE LAST CHANGED:	05/08/07
SECTION:	2700	TIME LAST CHANGED:	11:25:17

REQUESTER:	GSFC	JSC
TEST CODE:	ALPHSE	STSALL

1. DESCRIPTION: JSC STAT MUX

JSC require a Statistical Multiplexer system to operate on the
50 MBPS WSC to JSC full transponder circuit.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/08/07

[PRD] DATABASE RECORD:	518991	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	11/28/06
		INITIAL DATE:	03/16/92
ITEM NUMBER:	GS32G	DATE LAST CHANGED:	05/05/08
SECTION:	2700	TIME LAST CHANGED:	09:16:15

REQUESTER:	GSFC	SDTW
SUBREQUESTER:	OAS	SDTW
TEST CODE:	LATROT	STSALL

1. DESCRIPTION: OAS/SMC SDTW SHUTTLE FLIGHT MONITORING

GSFC is required to send a monitor feed of FD, A/G 1, A/G 2 or Mission
Audio to Onizuka/ SMC SDTW for monitoring flight operations, as
required.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS 301 805-3459

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 11/29/06

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD: 518991
ITEM NUMBER: GS32G

RESPONSE: Data from RTS will be supplied via existing OAS
interfaces.

[PRD] DATABASE RECORD: 522668 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 03/30/98
INITIAL DATE: 03/15/93
ITEM NUMBER: G36 DATE LAST CHANGED: 11/25/02
SECTION: 2700 TIME LAST CHANGED: 14:50:57

REQUESTER: GSFC
SUBREQUESTER: RS95-03
TEST CODE: ALPHSE INFO STSALL

1. DESCRIPTION: NISN OVERVIEW

The primary responsibility of NASA Intergraded Services (NISN) is to interconnect overseas and domestic tracking and telemetry stations and sites, launch areas, mission and project/payload operations control centers, science data capture facilities, and network control centers in the transporting of spacecraft telemetry data, air-to-ground voice and video for command, control, tracking, orbit determination, and data acquisition. In order to meet these responsibilities the following circuit provisioning lead times have been established to assist in the planning process for NISN services. These are "GUIDELINE" statements only, as all requirements will not have the same lead times.

Lead Time (months)	Type Service
3	Services via existing resources but requiring coordination between other NASA Centers, facilities, and users.
4	Services commonly provided by commercial carriers and that do not require special engineering; e.g., standard voice and data rates up to 1.544 MBS (T-1).
8	Services provided by commercial carrier

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2700 - COMMUNICATION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD: 522668
ITEM NUMBER: G36

and that require special engineering
and/or carrier/NISN special equipment
e.g., non-standard modems, customer
non-standard interfaces and unique
mux/demux arrangements.

12 Standard international services

18-24 Services requiring special engineering
and/or construction of new facilities;
e.g., new Earth stations or facilities
into remote areas, including data rates
in excess of 1.544 MBS (T-1).

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2710 - AIR/GROUND VOICE COMMUNICATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	14034	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	04/25/89

ITEM NUMBER: G1.1E

[PRD] DATABASE RECORD:	365442	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/24/03
		INITIAL DATE:	04/27/90
ITEM NUMBER:	G6EG	DATE LAST CHANGED:	06/13/07
SECTION:	2710	TIME LAST CHANGED:	12:01:04

REQUESTER:	GSFC		
TEST CODE:	EAFB	ER	PREFLT
	STSALL		

1. DESCRIPTION: GN AIR-TO-GROUND VERIFICATION TESTING

Prior to each mission, applicable stations are required to support A/G verification testing in the following manner:

1. Throughput/ Modified Throughput stations configure for keying and modulation on UHF A/G.
2. Maintain a capability to send and receive simulated audio tones through the system and measure audio frequencies during the testing process.
3. Confirm proper operation of the UHF systems when interfaced with the GSFC NIC.

NOTE: WSSH UHF shall support Launch day AOA/PLS, Landing minus one day checkout, and when WSSH is activated for Landing (EOM, EOM+1, EOM+2, etc.).

SUPPLIER: ER	AGENCY: 1 ROPS/DOU	(45TH SPACE WING)
SUBSUPPLIER:	EAFB	ER	WSMR

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/24/03

SUPPLIER: GSFC	AGENCY: GSFC/450.1	(GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS	301 805-3459		

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/12/05

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2710 - AIR/GROUND VOICE COMMUNICATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	391888	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/03/94
ITEM NUMBER:	G7GSX		

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2730 - VOICE NETWORK TRANSMISSION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	523218	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	11/03/05
ITEM NUMBER:	G16GT		

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	297557	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	04/03/98
		INITIAL DATE:	02/22/90
ITEM NUMBER:	G9EG	DATE LAST CHANGED:	02/07/07
SECTION:	2734	TIME LAST CHANGED:	09:29:52

REQUESTER: GSFC
TEST CODE: ER MIL STSALL

1. DESCRIPTION: HIGH-SPEED DATA CIRCUITS

Provide High-speed data circuits as outlined below:

REF	TYPE OF SERVICE	FROM	TO	REMARKS
----	-----	-----	-----	-----
G9.1	2.4KBPS HALF DUPLEX	ER	MILA	LTAS, Acq data bus.
G9.2	2.4KBPS HALF DUPLEX	MILA	ER	S-band, RSO Telemetry
G9.3	2.4KBPS HALF DUPLEX	ER	GSFC	LTAS, Acq data bus.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/14/98

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/03/98

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[PRD] DATABASE RECORD:	11790	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	03/30/98

ITEM NUMBER: G14GT

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[PRD] DATABASE RECORD:	10890	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	08/12/04

ITEM NUMBER: GST20DT

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 10890
ITEM NUMBER: GST20DT

[PRD] DATABASE RECORD: 16034 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 01/08/91

ITEM NUMBER: GST23EGST

[PRD] DATABASE RECORD: 523223 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 03/01/07
INITIAL DATE: 05/26/93
ITEM NUMBER: G31GT DATE LAST CHANGED: 11/28/07
SECTION: 2734 TIME LAST CHANGED: 10:41:03

REQUESTER: GSFC
TEST CODE: ALPHSE STSALL

1. DESCRIPTION: CAS DATA CIRCUIT

Provide a data circuit for transmission of Customer Ancillary
Service (CAS) data, between GSFC and JSC.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/08/07

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 03/01/07

[PRD] DATABASE RECORD: 594242 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 01/10/08
INITIAL DATE: 01/10/08
ITEM NUMBER: GT44GT DATE LAST CHANGED: 02/21/08
SECTION: 2734 TIME LAST CHANGED: 08:37:52

REQUESTER: GSFC JSC
TEST CODE: ALPHSE STSALL

1. DESCRIPTION: DSMC NETWORK SCHEDULING

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 594242
ITEM NUMBER: GT44GT

SN Resource

The planning week for forecast scheduling begins on the Monday, 21 days prior to the existing real-time week. Mission support and critical times for SSP should be coordinated with forecast scheduling during this week. All requests for support that are received by 1200Z the following Monday, 14 days prior to the real-time week, will be scheduled by priority. Mission support for SSP by the SN shall be requested in the form of Schedule Add Requests (SAR's) transmitted via high speed data messages from JSC to the DSMC. Changes, in the form of adds and deletes, will be utilized to accommodate schedules start/stop time differences between nominal pre-mission forecasted schedules and actual lift off time and trajectory changes. Other centers having requirements involving SN support of the SSP must coordinate their support requirements with JSC.

1. A circuit of 64 kbps between the DSMC and the MCC shall be provided for TDRSS scheduling messages. This interface shall be full duplex and shall be shared between the ISS and SSP Programs.
2. A NISN Mission Critical service is required.
3. The interface shall provide security appropriate for "Space Operations Information".
4. Refer to the JSC MCC to SN NCCDS Operational Communications ICD for MCC Systems (JSC 11534 Volume XVI, latest revision) for detailed interface specifications.

REF: FLT-II Section 2734 Item G11GT DBR 594258
ISS VOL-I Section 2734 Item T43GT DBR 556504

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 02/20/08

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/10/08

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2734 - VIDEO/DATA NETWORK TRANSMISSION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 594242
ITEM NUMBER: GT44GT

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	347874	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	09/30/02
		INITIAL DATE:	09/10/90
ITEM NUMBER:	TGHX3.1T	DATE LAST CHANGED:	09/28/07
SECTION:	2750	TIME LAST CHANGED:	12:30:48

REQUESTER:	JSC	GSFC	MSFC
	DFRC		
TEST CODE:	LATROT	STSALL	

1. DESCRIPTION: AIR-TO-GROUND-1 (A/G-1)V1
 RESPONSIBLE AGENCY: JSC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
---	-----	---	----	-----
1		T		MCC distribution
2		M		Extend to GSFC/GN
3		M	1	Extend to DFRC
4		M		Extend to MSFC

NOTE: 1. Composite of A/G 1 & 2

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/30/02

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[PRD] DATABASE RECORD:	357619	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	11/28/06
		INITIAL DATE:	06/15/90
ITEM NUMBER:	GKTY3.2G	DATE LAST CHANGED:	02/07/07
SECTION:	2750	TIME LAST CHANGED:	09:29:52

REQUESTER:	GSFC	KSC	JSC
	NASA HQ		
SUBREQUESTER:	PH-L		
TEST CODE:	EAFB	ER	LATROT
	STSALL		

1. DESCRIPTION: AIR-TO-GROUND-1 (A/G-1)V1
 RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
---	-----	---	----	-----
1		M		GSFC/GN for distribution
2		M		Extend to NASA HQS for Distribution

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 357619
 ITEM NUMBER: GKTY3.2G

3	M	1	Extend to KSC/CDSC for Distribution
4	M		Extend to OAS/SMC SDTW
5	M		Extend to WSC
6	M		Extend to WSSH/WSMR via WSC

NOTE: 1. A/G-1 monitor capability via MILA/KSC/CDSC on "GSFC GCN-1"
 through Landing rollout.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
 SUBSUPPLIER: WSC

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/29/06

[PRD] DATABASE RECORD:	393011	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	11/28/06
		INITIAL DATE:	06/15/90
ITEM NUMBER:	GKTYZ4.2G	DATE LAST CHANGED:	03/02/07
SECTION:	2750	TIME LAST CHANGED:	14:11:51

REQUESTER:	GSFC	KSC	JSC
	NASA HQ	WSTF	
SUBREQUESTER:	PH-L		
TEST CODE:	EAFB	LATROT	STSALL
	WSSH		

1. DESCRIPTION: AIR-TO-GROUND-2 (A/G-2)V2
 RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
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1		M		GSFC for distribution
2		M	1	Extend to KSC/CDSC for Distribution
3		M		Extend to NASA HQS for Distribution
4		M		Extend to WSC/WSSH/WSMR
5		M		Extend to SMC SDTW

NOTE: 1. A/G-2 monitor capability KSC/CDSC on "GSFC GCN-3"
 through Landing rollout.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 393011
 ITEM NUMBER: GKTYZ4.2G

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/29/06

[PRD] DATABASE RECORD: 337265 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 05/22/02
 INITIAL DATE: 03/08/90
 ITEM NUMBER: GK5.2K DATE LAST CHANGED: 02/06/07
 SECTION: 2750 TIME LAST CHANGED: 10:19:46

REQUESTER: GSFC KSC
 SUBREQUESTER: PH-L
 TEST CODE: ER LATROT STSALL

1. DESCRIPTION: LEAD RANGE COORDINATION
 RESPONSIBLE AGENCY: KSC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
K1		T		EXTEND TO CCAFS X-Y
G2		T		EXTEND TO GSFC

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
 SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/13/02

[PRD] DATABASE RECORD: 347291 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 05/22/02
 INITIAL DATE: 03/08/90
 ITEM NUMBER: GK5.4E DATE LAST CHANGED: 02/06/07
 SECTION: 2750 TIME LAST CHANGED: 10:23:04

REQUESTER: GSFC KSC
 SUBREQUESTER: IT-D2 PH-L TA-E
 TEST CODE: ER LATROT STSALL

1. DESCRIPTION: LEAD RANGE COORDINATION
 RESPONSIBLE AGENCY: 45 RANS

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
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CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 347291
 ITEM NUMBER: GK5.4E

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
K1		T		CCAFS X-Y Bldg. distribution
K2		T		CCAFS ER LRCC
K3		T		SRO Console
K4		T		CCAFS, LRCC, NASA Network Rep Console
K5		T		CCAFS, LRCC, NASA Project Console
K6		M		CCAFS, ROCC, NASA Mgmt Console
K7		T		Extend to KSC/CDSC

SUPPLIER: ER AGENCY: 45 RANS/DOU (45TH SPACE WING)
 SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/16/03

[PRD] DATABASE RECORD: 290507 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 08/02/07
 INITIAL DATE: 01/17/90
 ITEM NUMBER: DGHT12.1T DATE LAST CHANGED: 09/28/07
 SECTION: 2750 TIME LAST CHANGED: 12:30:48

REQUESTER:	HSFS	GSFC	MSFC
JSC			
TEST CODE:	DDMS	EAFB	ER
LATROT		STSALL	WSSH

1. DESCRIPTION: FLIGHT DIRECTOR (FD)
 RESPONSIBLE AGENCY: JSC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		MCC for distribution
T2		T	1,2	Extend to KSC
G3		M		Extend to GSFC
H4		M		Extend to MSFC
T5		M	1,2	Extend to DFRC

NOTE: 1. This loop also contained in L&L PRD.
 REF: GTK79.1T LLS 2750 DBR 283982
 2. Configure for talk at Launch and Landing.

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 290507
ITEM NUMBER: DGHT12.1T

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)
RESPONDER: KEN JONES

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/02/07

[PRD] DATABASE RECORD: 293685 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 11/28/06
INITIAL DATE: 06/15/90
ITEM NUMBER: GTY12.2G DATE LAST CHANGED: 05/08/07
SECTION: 2750 TIME LAST CHANGED: 13:33:30

REQUESTER: GSFC JSC NASA HQ
TEST CODE: EMCC LATROT STSALL

1. DESCRIPTION: FLIGHT DIRECTOR (FD)
RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
G1		M		GSFC for distribution
Y2		M		Extend to NASA HQS for Distribution
G3		M	1	Extend to WSC/WSSH/WSMR
G4		M		Extend to OAS/SMC SDTW
G5		M		Extend to WLPS
G6		M		Extend to State Dept

NOTE: Extend to WSC/WSSH in talk mode if designated as a Landing site.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
RESPONDER: ANTHONY WILLIAMS

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/08/07

[PRD] DATABASE RECORD: 317954 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 10/03/02
INITIAL DATE: 10/24/84
ITEM NUMBER: GT14.1G DATE LAST CHANGED: 01/29/07
SECTION: 2750 TIME LAST CHANGED: 14:58:30

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 317954
 ITEM NUMBER: GT14.1G

REQUESTER: GSFC JSC
 TEST CODE: ALPHSE CKT14 FULL-TIME
 STSALL

1. DESCRIPTION: GSFC COMMUNICATIONS MANAGER (GSFC COMM MGR)
 RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
G1		T		GSFC/NIC distribution
T2		T		Extend to JSC
G3		T		Extend to NISN distribution

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/02

[PRD] DATABASE RECORD: 319696 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 05/24/02
 INITIAL DATE: 10/24/84
 ITEM NUMBER: GT14.2T DATE LAST CHANGED: 09/28/07
 SECTION: 2750 TIME LAST CHANGED: 12:30:48

REQUESTER: GSFC JSC
 TEST CODE: ALPHSE CKT14 FULL-TIME
 STSALL

1. DESCRIPTION: GSFC COMMUNICATIONS MANAGER (GSFC COMM MGR)

RESPONSIBLE AGENCY: JSC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		MCC for distribution

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/24/02

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 319696
ITEM NUMBER: GT14.2T

[PRD] DATABASE RECORD: 321190 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 10/03/02
INITIAL DATE: 03/30/88
ITEM NUMBER: GKT15.1GT DATE LAST CHANGED: 09/28/07
SECTION: 2750 TIME LAST CHANGED: 12:30:48

REQUESTER: GSFC KSC JSC
TEST CODE: ALPHSE ER FULL-TIME
STSALL

1. DESCRIPTION: GSFC ORBIT DETERMINATION FACILITY (GSFC ODF) COORD
RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		GSFC distribution
T2		T		GSFC FDF console
K3		T		Extend to KSC/CDSC
G4		M		GSFC NIC
T5		T		Extend to JSC/MCC Distribution

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/02

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/02

[PRD] DATABASE RECORD: 401428 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 05/12/05
INITIAL DATE: 08/27/92
ITEM NUMBER: GTY20.5G DATE LAST CHANGED: 12/01/06
SECTION: 2750 TIME LAST CHANGED: 10:07:58

REQUESTER: GSFC JSC NASA HQ
TEST CODE: CKT20 EMCC STSALL

1. DESCRIPTION: LANDING FIELD - PRIME-2 (L/F PR-2)

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 401428
 ITEM NUMBER: GTY20.5G

RESPONSIBLE AGENCY: GSFC

REF	CAP	NOTE	TERMINATION LOCATION
T1	T	1	Extend to DFRC
T2	T		Extend to WSSH/WSMR VIA WSC (If required)
G3	T	1	KSC/CDSC extend to GSFC
Y4	M		Extend to NASA HQ

NOTE: 1. This circuit will be activated for EMCC support.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
 RESPONDER: ANTHONY WILLIAMS 301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/12/05

[PRD] DATABASE RECORD: 355797 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 05/29/02
 INITIAL DATE: 03/30/88
 ITEM NUMBER: GTY29.4G DATE LAST CHANGED: 12/01/06
 SECTION: 2750 TIME LAST CHANGED: 10:07:58

REQUESTER: GSFC JSC NASA HQ
 SUBREQUESTER: JSC/MT3
 TEST CODE: ALPHSE CKT29 FULL-TIME
 STSALL TVPLAN

1. DESCRIPTION: PUBLIC AFFAIRS OFFICE CUE (PAO CUE)
 RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		GSFC for distribution
Y2		T		Extend to NASA HQS for Distribution
T3		T		GSFC, Bldg 8-N2, Call Dir.
T4		T		GSFC, Bldg 8-N4, Call Dir.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 355797
ITEM NUMBER: GTY29.4G

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/02

[PRD] DATABASE RECORD: 276383 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 10/03/02
INITIAL DATE: 01/17/90
ITEM NUMBER: GHKTX45.1G DATE LAST CHANGED: 02/06/07
SECTION: 2750 TIME LAST CHANGED: 10:39:39

REQUESTER: GSFC MSFC KSC
JSC DFRC
TEST CODE: 30 SPW ALPHSE EAFB
ER MIL STSALL

1. DESCRIPTION: SITE COORDINATION (SITE COORD)
RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		GSFC for distribution
T2		T		Extend to JSC
T3		T		GSFC NIC
T4		T		Extend to CCAFS X-Y via CDSC
G5		M		Extend to KSC/CDSC for distribution
H6		M		Extend to MSFC Comm Bldg. 4207 for Dist.
T7		T		Extend to WSMR/WSMR via WSC
T8		T		Extend to GN
G9		T		Extend to WSC
T10		T		Extend to DFRC

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 10/03/02

[PRD] DATABASE RECORD: 315566 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 04/04/05
INITIAL DATE: 06/08/88
ITEM NUMBER: GT52.1G DATE LAST CHANGED: 12/01/06
SECTION: 2750 TIME LAST CHANGED: 10:07:58

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 315566
ITEM NUMBER: GT52.1G

REQUESTER: GSFC JSC
TEST CODE: ALPHSE CKT52 EMCC
ER MIL STSALL
WSSH

1. DESCRIPTION: TRACKING COORDINATION (TRACK COORD)
RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
G1		T		Extend to KSC/CDSC
T2		T		GSFC/Goddard OPS
T3		T		WFC Radar Net (FPS-16/FPQ-6)
G4		T		GSFC NIC
T5		T		Extend to JSC
T6		T	2	Extend to DFRC
T9		T	1,2	Extend to WSSH/WSMR via WSC

NOTE: 1. NISN/DOD communications facilities are utilized
as appropriate.
2. This circuit will be activated for EMCC support.
REF: T14EGKX FLS2730 DBR 520260

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/12/05

[PRD] DATABASE RECORD: 515825 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 05/25/04

ITEM NUMBER: GST62T

[PRD] DATABASE RECORD: 518958 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 05/25/04

ITEM NUMBER: GST62.1GS

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD:	515826	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	04/22/05
		INITIAL DATE:	07/22/91
ITEM NUMBER:	GST63T	DATE LAST CHANGED:	09/28/07
SECTION:	2750	TIME LAST CHANGED:	12:30:49

REQUESTER:	GSFC	SDTW	JSC
TEST CODE:	CKT63	LATROT	STSALL

1. DESCRIPTION: SHUTTLE SUPPORT
 RESPONSIBLE AGENCY: JSC

REF:	TEST CODE	CAP	NOTE	TERMINATION LOCATION
----	-----	---	----	-----
T1		T		MCC FOR DISTRIBUTION
G2		T	1	EXTEND TO GSFC

NOTE: 1. MCC Coord will be backup to Shuttle Support.

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/07/05

=====

[PRD] DATABASE RECORD:	518926	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	05/05/08
		INITIAL DATE:	03/04/92
ITEM NUMBER:	TGS63.1GS	DATE LAST CHANGED:	05/05/08
SECTION:	2750	TIME LAST CHANGED:	09:30:22

REQUESTER:	JSC	GSFC	SDTW
TEST CODE:	CKT63	LATROT	STSALL

1. DESCRIPTION: SHUTTLE SUPPORT
 Responsible Agency: OAS

REF:	TEST CODE	CAP	NOTE	TERMINATION LOCATION
----	-----	---	----	-----
T1		T	1	OAS for distribution and to SDTW

NOTE: 1. MCC COORD will be backup to Shuttle Support.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
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 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD: 518926
 ITEM NUMBER: TGS63.1GS

RESPONDER: ANTHONY WILLIAMS 301 805-3459

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/05/08
 RESPONSE: Data from RTS will be supplied via existing OAS
 interfaces.

SUPPLIER: SDTW AGENCY: SDTW (GODDARD SPACE FLIGHT CENTER (GSFC/))
 RESPONDER: ANTHONY WILLIAMS 301 805-3459

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/05/08
 RESPONSE: Data from RTS will be supplied via existing OAS
 interfaces.

 [PRD] DATABASE RECORD: 518927 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 05/05/08
 ITEM NUMBER: TGS63.2G INITIAL DATE: 03/04/92
 SECTION: 2750 DATE LAST CHANGED: 05/09/08
 TIME LAST CHANGED: 10:04:58

REQUESTER: JSC GSFC SDTW
 TEST CODE: LATROT STSALL

1. DESCRIPTION: SHUTTLE SUPPORT

Responsible Agency: GSFC

REF:	TEST CODE	CAP	NOTE	TERMINATION LOCATION
T1		T		GSFC for distribution
G2		T	1	Extend to OAS/SMC SDTW

NOTE: 1. MCC COORD will be backup to Shuttle Support.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
 RESPONDER: ANTONY WILLIAMS 301 805-3459

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 05/05/08

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
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SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD: 518927
 ITEM NUMBER: TGS63.2G

RESPONSE: Voice extension of OAS will be via existing
 voice lines OAS will extend to Kirtland AFB via black phone

[PRD] DATABASE RECORD: 16069 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 06/02/05
 INITIAL DATE: 03/08/90
 ITEM NUMBER: GHT65G DATE LAST CHANGED: 09/28/07
 SECTION: 2750 TIME LAST CHANGED: 15:27:40

REQUESTER: GSFC MSFC JSC
 SUBREQUESTER: JSC/DD
 TEST CODE: ALPHSE CKT65 FULL-TIME
 STSALL

1. DESCRIPTION: MDM ORDERWIRE

RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
G1		T		Extend to WSC
T2		T		Extend to JSC
H3		T		Extend to MSFC (4207) for Distribution

TECHNICAL CONTACTS: MSFC/EO60/P. CAUTHEN/256 544-4204
 JSC/DD/K. JONES/281 483-7671

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/02/05

[PRD] DATABASE RECORD: 10815 REQUIREMENT STATUS: DELETED
 DOCUMENT ID: FLT-I APPROVAL DATE: 06/18/91
 ITEM NUMBER: EGST71T

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
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SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD:	20938	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GSY71.2GS

[PRD] DATABASE RECORD:	10817	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGST72T

[PRD] DATABASE RECORD:	20941	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GS72.3GS

[PRD] DATABASE RECORD:	10809	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGKST73EGKST

[PRD] DATABASE RECORD:	10811	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGT74ET

[PRD] DATABASE RECORD:	20943	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GY74.2G

[PRD] DATABASE RECORD:	10819	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGST76T

[PRD] DATABASE RECORD:	20946	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GT76.2GS

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REF UDS NR 225

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[PRD] DATABASE RECORD:	10821	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGST77T

[PRD] DATABASE RECORD:	10823	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GS77.1GS

[PRD] DATABASE RECORD:	20949	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GY77.4G

[PRD] DATABASE RECORD:	10825	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGT79T

[PRD] DATABASE RECORD:	10826	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GS79.1GS

[PRD] DATABASE RECORD:	20954	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GH79.3G

[PRD] DATABASE RECORD:	10828	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGST81T

[PRD] DATABASE RECORD:	10829	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGST82T

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SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD:	10830	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGST83T

[PRD] DATABASE RECORD:	20961	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGST84T

[PRD] DATABASE RECORD:	20963	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGST85T

[PRD] DATABASE RECORD:	10833	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGT86T

[PRD] DATABASE RECORD:	20967	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GHY86.3G

[PRD] DATABASE RECORD:	10835	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGT88T

[PRD] DATABASE RECORD:	20971	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GY88.2G

[PRD] DATABASE RECORD:	10836	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGHT89G

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PAGE SEQUENCE NUMBER: 51
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CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
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SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD:	10837	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGST90T

[PRD] DATABASE RECORD:	10842	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGS91GS

[PRD] DATABASE RECORD:	20973	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGS91.1E

[PRD] DATABASE RECORD:	10843	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGS92GS

[PRD] DATABASE RECORD:	20974	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGS92.1E

[PRD] DATABASE RECORD:	10844	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGS93GS

[PRD] DATABASE RECORD:	20975	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGS93.1E

[PRD] DATABASE RECORD:	10845	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGS94GS

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REF UDS NR 225

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	20976	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGS94.1E

[PRD] DATABASE RECORD:	20977	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGS95GS

[PRD] DATABASE RECORD:	10846	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGS95.1E

[PRD] DATABASE RECORD:	20978	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GT96T

[PRD] DATABASE RECORD:	10847	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EG96.1EG

[PRD] DATABASE RECORD:	10848	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGT97.1G

[PRD] DATABASE RECORD:	12959	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GHST98T

[PRD] DATABASE RECORD:	10849	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GST99T

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 CLASSIFICATION UNCLASSIFIED

REF UDS NR 225

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD:	20093	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: GHY103.1G

[PRD] DATABASE RECORD:	518936	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	03/19/03

ITEM NUMBER: GT114T

[PRD] DATABASE RECORD:	518937	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	03/19/03

ITEM NUMBER: GT114.1G

[PRD] DATABASE RECORD:	517808	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/06/94

ITEM NUMBER: G139G

[PRD] DATABASE RECORD:	517820	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/06/94

ITEM NUMBER: G139.1GJ

[PRD] DATABASE RECORD:	517821	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/06/94

ITEM NUMBER: G139.2T

[PRD] DATABASE RECORD:	519780	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	09/30/02
		INITIAL DATE:	04/20/92
ITEM NUMBER:	TGX140T	DATE LAST CHANGED:	11/26/07
SECTION:	2750	TIME LAST CHANGED:	14:53:57

REQUESTER:	JSC	GSFC	DFRC
TEST CODE:	ALPHSE	STSALL	

1. DESCRIPTION: AIR-TO-GROUND UHF

RESPONSIBLE AGENCY: JSC

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD: 519780
ITEM NUMBER: TGX140T

REF:	TEST CODE	CAP	NOTE	TERMINATION LOCATION
1		T		MCC DISTRIBUTION
2		M	1, 2	EXTEND TO GSFC/GN
3		M	1	EXTEND TO DFRC

NOTE: 1. Configure talk mode when requested by JSC.

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/30/02

[PRD] DATABASE RECORD: 568092 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 11/19/02
INITIAL DATE:
ITEM NUMBER: GT150.2G DATE LAST CHANGED: 12/01/06
SECTION: 2750 TIME LAST CHANGED: 10:07:57
REQUESTER: GSFC JSC
TEST CODE: CKT150 STSALL

1. DESCRIPTION: TN COORD

RESPONSIBLE AGENCY: WSC/GSFC

REF	CAP	TERMINATION LOCATION
G1	T	WSC LOCAL DISTRIBUTION

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
SUBSUPPLIER: WSC

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/23/04

[PRD] DATABASE RECORD: 567701 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 11/14/02
INITIAL DATE:
ITEM NUMBER: GHT157G DATE LAST CHANGED: 12/01/06

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD: 567701
ITEM NUMBER: GHT157G

SECTION: 2750 TIME LAST CHANGED: 10:07:57

REQUESTER: GSFC MSFC JSC
TEST CODE: FULL-TIME STSALL

ASSOCIATED DOC: ISS VOL-I

1. DESCRIPTION: NISN COMM COORD

Responsible Agency: GSFC

REF	CAP	NOTE	TERMINATION LOCATION
T1	T/M	1	EXTEND TO JSC
H2	T/M	1	EXTEND TO MSFC
G3	T/M	1	DISTRIBUTION TO GSFC NISN INTERNAL AREAS

NOTE: 1.Orderwire between JSC OST, GSFC COMM Manager, and MSFC NISN
Service Group for all NISN related voice and data issues.

REF: ISS VOL-I ITEM GHT8G SECTION 2750 DBR 561754

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/22/02

[PRD] DATABASE RECORD: 557526 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 11/14/02
INITIAL DATE: 11/06/00
ITEM NUMBER: GHT157.1T DATE LAST CHANGED: 09/28/07
SECTION: 2750 TIME LAST CHANGED: 12:30:49

REQUESTER: GSFC MSFC JSC
TEST CODE: FULL-TIME STSALL

ASSOCIATED DOC: ISS VOL-I

1. DESCRIPTION: NISN COMM COORD

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

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[PRD] DATABASE RECORD: 557526
 ITEM NUMBER: GHT157.1T

Responsible Agency: JSC

REF ---	CAP ---	NOTE ----	TERMINATION LOCATION -----
T1	T/M	1	MCC DISTRIBUTION

NOTE: 1. Orderwire between JSC OST, GSFC COMM MANAGER, and MSFC NISN
 Service Group for all NISN related voice and data issues.

REF: ISS VOL-I ITEM TH8.1GT SECTION ISO2750 DBR 557096

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/02

[PRD] DATABASE RECORD: 567703	REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I	APPROVAL DATE: 11/14/02
	INITIAL DATE:
ITEM NUMBER: GHT157.2H	DATE LAST CHANGED: 10/14/04
SECTION: 2750	TIME LAST CHANGED: 09:29:24

REQUESTER: GSFC	MSFC	JSC
TEST CODE: FULL-TIME	STSALL	

ASSOCIATED DOC: ISS VOL-I

1. DESCRIPTION: NISN COMM COORD

Responsible Agency: MSFC

REF ---	CAP ---	NOTE ----	TERMINATION LOCATION -----
H1	T/M	1	DISTRIBUTION TO MSFC ENMC/RSEG
H2	T/M	2	DISTRIBUTION TO MSFC HOSC

NOTE: 1. Orderwire between JSC OST, GSFC COMM MGR, and MSFC NISN (ENMC)
 and Russian Services Engineering Group (RSEG) for all NISN

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
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SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD: 567703
ITEM NUMBER: GHT157.2H

- related voice and data issues.
2. Used for NISN voice and data communication issues between
COMM MGR, JSC OST, MSFC IST, and others as required.

REF: ISS VOL-I ITEM GHT8.2H SECTION 2750 DBR 561755

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/02

[PRD] DATABASE RECORD: 558795 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 11/14/02
INITIAL DATE: 03/29/01
ITEM NUMBER: GHT158G DATE LAST CHANGED: 01/24/07
SECTION: 2750 TIME LAST CHANGED: 11:39:22

REQUESTER: GSFC MSFC JSC
TEST CODE: FULL-TIME STSALL

ASSOCIATED DOC: ISS VOL-I

1. DESCRIPTION: WSC PLAYBACK COORD

RESPONSIBLE AGENCY:GSFC

REF	CAP	NOTE	TERMINATION LOCATION
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T1	T/M	1	EXTEND TO JSC
H2	T/M	1	EXTEND TO MSFC
G3	T/M	1	EXTEND TO WSC

NOTE: This circuit will be used for all Shuttle and Station Playbacks.

REF: ISS VOL-I ITEM GHT13G SECTION 2750 DBR 558796

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 558795
 ITEM NUMBER: GHT158G

SUBSUPPLIER: WSC

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/22/02

[PRD] DATABASE RECORD: 567706 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 11/14/02
 INITIAL DATE:
 ITEM NUMBER: GHT158.1T DATE LAST CHANGED: 09/28/07
 SECTION: 2750 TIME LAST CHANGED: 12:30:47

REQUESTER: GSFC MSFC JSC
 TEST CODE: FULL-TIME STSALL

ASSOCIATED DOC: ISS VOL-I

1. DESCRIPTION: WSC PLAYBACK COORD

RESPONSIBLE AGENCY: JSC

REF	CAP	NOTE	TERMINATION LACTION
T1	T/M	1	TELCOM CONSOLES

NOTE: 1. THIS CIRCUIT WILL BE USED FOR ALL SHUTTLE AND STATION
 PLAYBACKS.

REF: ISS VOL-I ITEM GHT13.1T SECTION 2750 DBR 561724

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/14/02

[PRD] DATABASE RECORD: 567707 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 11/14/02
 INITIAL DATE:
 ITEM NUMBER: GHT158.2H DATE LAST CHANGED: 10/14/04
 SECTION: 2750 TIME LAST CHANGED: 09:29:24

REQUESTER: GSFC MSFC JSC
 TEST CODE: FULL-TIME STSALL

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 567707
 ITEM NUMBER: GHT158.2H

ASSOCIATED DOC: ISS VOL-I

1. DESCRIPTION: WSC PLAYBACK COORD

RESPONSIBLE AGENCY: MSFC

REF	CAP	NOTE	TERMINATION LOCATION
H1	T/M	1	MSFC LOCAL DISTRIBUTION

NOTE: 1.THIS CIRCUIT WILL BE USED FOR ALL SHUTTLE AND STATION
 PLAYBACK.

REF: ISS VOL-II ITEM GHT13.2H SECTION 2750 DBR 561725

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/21/02

[PRD] DATABASE RECORD:	563565	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	07/24/02
		INITIAL DATE:	
ITEM NUMBER:	GX159G	DATE LAST CHANGED:	01/24/07
SECTION:	2750	TIME LAST CHANGED:	11:39:56

REQUESTER:	GSFC	DFRC	
TEST CODE:	CKT159	FULL-TIME	STSALL

1. DESCRIPTION: MISSION COMM ORDERWIRE

RESPONSIBLE AGENCY: GSFC

REF	CAP	NOTE	TERMINATION LOCATION
G1	T	1	Extend to DFRC

NOTE: 1. This is a communication troubleshooting order wire between
 DFRC COMM and GSFC NISN.

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/24/02

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 563565
ITEM NUMBER: GX159G

[PRD] DATABASE RECORD: 563566 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 07/24/02
INITIAL DATE:
ITEM NUMBER: GX159.1X DATE LAST CHANGED: 02/12/04
SECTION: 2750 TIME LAST CHANGED: 13:31:09

REQUESTER: GSFC DFRC
TEST CODE: CKT159 FULL-TIME STSALL

1. DESCRIPTION: MISSION COMM ORDERWIRE

RESPONSIBLE AGENCY: DFRC

REF	CAP	NOTE	TERMINATION LOCATION
D1	T	1	DFRC COMM Distribution

NOTE: 1. This is a communication troubleshooting order wire between
DFRC COMM and GSFC NISN.

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/03/02

[PRD] DATABASE RECORD: 563576 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 11/03/05
ITEM NUMBER: GT160T

[PRD] DATABASE RECORD: 563577 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 11/03/05

ITEM NUMBER: GT160.1G

[PRD] DATABASE RECORD: 563578 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 04/05/05
INITIAL DATE:
ITEM NUMBER: GH161G DATE LAST CHANGED: 12/01/06

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 563578
 ITEM NUMBER: GH161G

SECTION: 2750 TIME LAST CHANGED: 10:07:57

REQUESTER: GSFC MSFC
 TEST CODE: CKT161 FULL-TIME STSALL

1. DESCRIPTION: GSFC/MSFC COORD

RESPONSIBLE AGENCY: GSFC

REF	CAP	NOTE	TERMINATION LOCATION
H1	T		Extend to MSFC
G2	T		Extend to KSC/CDSC
G3	T		Extend to WSC/WSSH
G4	T		GSFC Local Distribution

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/12/05

[PRD] DATABASE RECORD: 563579 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 07/25/02
 INITIAL DATE:
 ITEM NUMBER: GH161.1H DATE LAST CHANGED: 10/14/04
 SECTION: 2750 TIME LAST CHANGED: 09:29:24

REQUESTER: GSFC MSFC
 TEST CODE: CKT161 FULL-TIME STSALL

1. DESCRIPTION: GSFC/MSFC COORD

RESPONSIBLE AGENCY: MSFC

REF	CAP	NOTE	TERMINATION LOCATION
H1	T		Extend for MSFC Distribution

SUPPLIER: MSFC AGENCY: MSFC/EO60 (MARSHALL SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 12/12/03

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2750 - VOICE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	563580	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	07/25/02
		INITIAL DATE:	
ITEM NUMBER:	GH161.2K	DATE LAST CHANGED:	03/19/07
SECTION:	2750	TIME LAST CHANGED:	12:08:16

REQUESTER: GSFC MSFC
TEST CODE: FULL-TIME STSALL

1. DESCRIPTION: GSFC/MSFC COORD

RESPONSIBLE AGENCY: KSC/CDSC

REF	CAP	NOTE	TERMINATION LOCATION
G1	T		Extend to MILA

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: IT-D2-A KICS-105

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 07/25/02

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2753 - TELETYPE TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	10856	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	06/18/91

ITEM NUMBER: EGHKST1T

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	254078	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	01/28/92
		INITIAL DATE:	09/21/89
ITEM NUMBER:	G5E	DATE LAST CHANGED:	05/06/05
SECTION:	2755	TIME LAST CHANGED:	10:29:27

REQUESTER: GSFC
 TEST CODE: ALPHSE ER STSALL

1. DESCRIPTION: LAUNCH TRAJECTORY ACQUISITION SYSTEM (LTAS)
 RESPONSIBLE AGENCY: 45 RANS

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
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G1		T/O	1	ER RTCS

NOTE: 1. 2.4 kb/s - C-band data.

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
 SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 01/28/92

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[PRD] DATABASE RECORD:	336849	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	09/21/89
		INITIAL DATE:	09/21/89
ITEM NUMBER:	G6K	DATE LAST CHANGED:	02/21/07
SECTION:	2755	TIME LAST CHANGED:	10:58:02

REQUESTER: GSFC
 TEST CODE: ALPHSE MIL STSALL

1. DESCRIPTION: LAUNCH TRAJECTORY ACQUISITION SYSTEM (LTAS)
 RESPONSIBLE AGENCY: KSC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
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G1		R/T	1	CDSC extension to MILA

NOTE: 1. 2.4 kb/s - C-band data

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
 SUBSUPPLIER: I-IT-D2-C KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 09/21/89

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 336849
ITEM NUMBER: G6K

[PRD] DATABASE RECORD: 338292 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 04/05/05
INITIAL DATE: 09/21/89
ITEM NUMBER: G7G DATE LAST CHANGED: 02/07/07
SECTION: 2755 TIME LAST CHANGED: 09:29:52

REQUESTER: GSFC
TEST CODE: ALPHSE MIL STSALL

1. DESCRIPTION: LAUNCH TRAJECTORY ACQUISITION SYSTEM (LTAS)
RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
G1		R/O	1	GSFC
G2		R/O	1	MILA
G3		R/O	1	WLP
G4		R/O	1	WSSH via WSC

NOTE: 1. 2.4 kb/s - C-band data

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/02/05

[PRD] DATABASE RECORD: 10863 REQUIREMENT STATUS: APPROVED
DOCUMENT ID: FLT-I APPROVAL DATE: 04/03/98
INITIAL DATE: 04/04/88
ITEM NUMBER: EGT13EGT DATE LAST CHANGED: 09/28/07
SECTION: 2755 TIME LAST CHANGED: 12:30:47

REQUESTER: ER GSFC JSC
TEST CODE: ER LATROT MIL
STSALL

1. DESCRIPTION: INTER-CENTER VECTOR (ICV)

RESPONSIBLE AGENCY: GSFC

REF	TEST CODE	CAP	NOTE	TERMINATION LOCATION
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CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 10863
 ITEM NUMBER: EGT13EGT

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T1				MCC for Distribution
T2				MCC Extend to GSFC
G10				GSFC Extend to KSC/CDSC
E11				CDSC Extend to CCAFS-XY
E12				CAFS-XY Extend to RTCS

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
 SUBSUPPLIER: ER

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 08/14/98

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/03/98

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/03/98

[PRD] DATABASE RECORD:	539482	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	11/25/02
		INITIAL DATE:	07/25/97
ITEM NUMBER:	G16T	DATE LAST CHANGED:	09/28/07
SECTION:	2755	TIME LAST CHANGED:	12:30:49

REQUESTER: GSFC
 TEST CODE: ALPHSE STSALL

1. DESCRIPTION: CUSTOMER ANCILLARY SYSTEM

RESPONSIBLE AGENCY: JSC

REF	RATE	DATA	FROM JSC TO	NOTE
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G1	56Kbps	CAS	GSFC	

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/25/02

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 539482
 ITEM NUMBER: G16T

[PRD] DATABASE RECORD: 568278 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 04/22/05
 INITIAL DATE:
 ITEM NUMBER: G16.1G DATE LAST CHANGED: 02/08/07
 SECTION: 2755 TIME LAST CHANGED: 14:37:39

REQUESTER: GSFC
 SUBREQUESTER: MILA MSC SPIF WSC
 TEST CODE: ALPHSE STSALL

1. DESCRIPTION: CUSTOMER ANCILLARY SYSTEM

RESPONSIBLE AGENCY: GSFC

REF:	RATE	CAP	FROM GSFC TO	NOTE
G1	56Kbps	CAS	Extend to WSC	
G3	56Kbps	CAS	Extend to KSC/CDSC	
G4		CAS	Extend to MILA	
G5		CAS	Extend to NIC	

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/22/05

[PRD] DATABASE RECORD: 568276 REQUIREMENT STATUS: APPROVED
 DOCUMENT ID: FLT-I APPROVAL DATE: 11/25/02
 INITIAL DATE:
 ITEM NUMBER: G16.2K DATE LAST CHANGED: 02/21/07
 SECTION: 2755 TIME LAST CHANGED: 10:58:37

REQUESTER: GSFC
 SUBREQUESTER: MILA
 TEST CODE: ALPHSE STSALL

1. DESCRIPTION: CUSTOMER ANCILLARY SYSTEM

RESPONSIBLE AGENCY: KSC

REF	RATE	DATA	FROM KSC/CDSC TO	NOTE
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CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 2755 - VIDEO/DATA TERMINATIONS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 568276
ITEM NUMBER: G16.2K

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G1	56Kbps	CAS	MILA	

SUPPLIER: KSC AGENCY: KSC/PH-B (KENNEDY SPACE CENTER)
SUBSUPPLIER: KICS-109

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 11/25/02

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2800 - VIDEO

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	267096	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	03/07/94

ITEM NUMBER: G3T

[PRD] DATABASE RECORD:	581722	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	02/02/07
		INITIAL DATE:	04/13/05
ITEM NUMBER:	TGH18K	DATE LAST CHANGED:	05/05/08
SECTION:	2800	TIME LAST CHANGED:	11:29:41

REQUESTER:	JSC	GSFC	MSFC
SUBREQUESTER:	JSC/MO		
TEST CODE:	LAUNCH	PREFLT	STSALL

1. DESCRIPTION: ET TV VIDEO REQUIREMENT

KSC TV will distribute the switched analog ET TV in real-time to JSC,
 MSFC and GSFC.

SUPPLIER: KSC	AGENCY: KSC/PH-B	(KENNEDY SPACE CENTER)
SUBSUPPLIER:	IT-D2-C	KICS-109	

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 04/30/08

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
 PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
 OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
 PROGRAM NUMBER: 20000

SECTION 2823 - VIDEO RECORDINGS

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	581850	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	04/18/05
		INITIAL DATE:	04/18/05
ITEM NUMBER:	G6EG	DATE LAST CHANGED:	02/07/07
SECTION:	2823	TIME LAST CHANGED:	09:29:52

REQUESTER: GSFC
 TEST CODE: LAUNCH PREFLT STSALL

1. DESCRIPTION: ET TV ANALOG RECORDING AND DISPOSITION

Wallops, JDMTA, MILA and PDL are required to record the analog video from the ET TV Video camera utilizing the S-VHS recording equipment and hold until the end of the mission and then ship to GSFC for comparative analysis. JDMTA will record utilizing the GSFC provided equipment.

GSFC shipping address is as follows:

Honeywell Technology Solutions, Inc.
 Goddard Corporate Park
 7515 Mission Drive
 Lanham, Maryland 20706
 ATTN: James Fernholz
 Phone: 301 805-3860

SUPPLIER: ER AGENCY: 1 ROPS/DOU (45TH SPACE WING)
 SUBSUPPLIER: JDMTA

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 06/27/05

SUPPLIER: GSFC AGENCY: GSFC/450.1 (GODDARD SPACE FLIGHT CENTER)
 SUBSUPPLIER: MILA PDL WLPS
 RESPONDER: ANTHONY WILLIAMS 301 805-3459

SUPPLIER COMMITMENT: WILCO RESPONSE DATE: 05/17/05

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4200 - DATA DISPOSITION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	260656	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	03/01/07

ITEM NUMBER: G1

[PRD] DATABASE RECORD:	287663	REQUIREMENT STATUS:	APPROVED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	02/18/97
		INITIAL DATE:	02/08/90
ITEM NUMBER:	G2EHKTX	DATE LAST CHANGED:	09/28/07
SECTION:	4200	TIME LAST CHANGED:	12:30:48

REQUESTER:	GSFC		
TEST CODE:	ALPHSE	DATADS	EAFB
	ER	STSALL	

1. DESCRIPTION: POINT-OF-CONTACT

The Johnson Space Center and other participating Centers are requested to identify and provide in the PRD Point-of-Contacts to which data handling questions and problems may be directed for resolution.

REFERENCE: LLS, SECTION 4200, ITEM G3HKTX, DBR 245384

SUPPLIER: ER	AGENCY: 1 ROPS/DOU	(45TH SPACE WING)
SUBSUPPLIER:	ER		

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/24/97
RESPONSE: Point-of-Contact: Data Reduction/Analysis (321) 494-9767.

SUPPLIER: MSFC	AGENCY: MSFC/EO60	(MARSHALL SPACE FLIGHT CENTER)
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SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 03/12/01
RESPONSE: Point-of-Contact: Philip Cauthen,MSFC/EO60 (256) 544-4204

SUPPLIER: KSC	AGENCY: KSC/PH-B	(KENNEDY SPACE CENTER)
SUBSUPPLIER:	I-PZ-B	USK-610	

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/24/97

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4200 - DATA DISPOSITION

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

CONTINUED

[PRD] DATABASE RECORD: 287663
ITEM NUMBER: G2EHKTX

RESPONSE: Point of Contact: Douglas Overfelt/USK-668 321 861-1338

SUPPLIER: JSC AGENCY: JSC/DD (JOHNSON SPACE CENTER)

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/18/97
RESPONSE: Point-of-Contact: JSC/GC Office (281 483-6879)

SUPPLIER: DFRC AGENCY: DFRC/OS (DRYDEN FLIGHT RESEARCH CENTER)
SUBSUPPLIER: FR

SUPPLIER COMMITMENT: WILCO SEE RESPONSE RESPONSE DATE: 02/19/97
RESPONSE: Point-of-Contact: Jerry McKee/DFRC (661) 276-3245

[PRD] DATABASE RECORD: 324737 REQUIREMENT STATUS: DELETED
DOCUMENT ID: FLT-I APPROVAL DATE: 06/06/94
ITEM NUMBER: G3HTX

CLASSIFICATION UNCLASSIFIED

STS OPS FLIGHT PRD, VOLUME I
PROGRAM REQUIREMENTS DOCUMENT/PROGRAM SUPPORT PLAN/
OPERATIONS REQUIREMENT/OPERATIONS DIRECTIVE (PRD/PSP/OR/OD)
PROGRAM NUMBER: 20000

SECTION 4231 - DATA DISPOSITION - DETAIL - TELEMETRY

PUBLICATION DATE: 10/11/90 REVISION: 0000 RUN DATE: 04/29/10

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[PRD] DATABASE RECORD:	340739	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	05/13/85

ITEM NUMBER: G4T

[PRD] DATABASE RECORD:	275414	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	05/13/85

ITEM NUMBER: G25T

[PRD] DATABASE RECORD:	279006	REQUIREMENT STATUS:	DELETED
DOCUMENT ID:	FLT-I	APPROVAL DATE:	05/13/85

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[PRD] DATABASE RECORD:	281169	REQUIREMENT STATUS:	DELETED
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[PRD] DATABASE RECORD:	284475	REQUIREMENT STATUS:	DELETED
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